

=> fil reg

FILE 'REGISTRY' ENTERED AT 08:31:50 ON 26 AUG 1999
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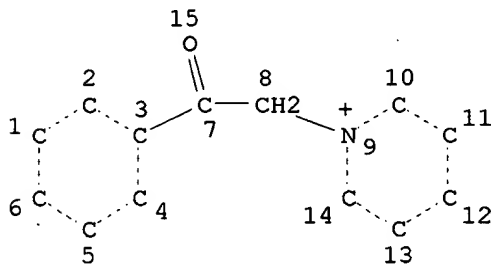
STRUCTURE FILE UPDATES: 26 AUG 99 HIGHEST RN 235114-88-2
 DICTIONARY FILE UPDATES: 26 AUG 99 HIGHEST RN 235114-88-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

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L1 STR



NODE ATTRIBUTES:

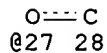
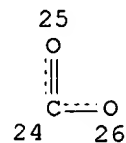
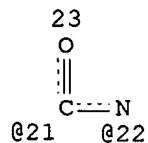
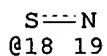
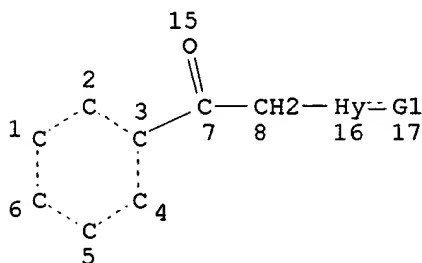
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 10 3
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

L2 1384 SEA FILE=REGISTRY SSS FUL L1
 L5 STR



VAR G1=18/21/22/AK/27/NO2/X/CY

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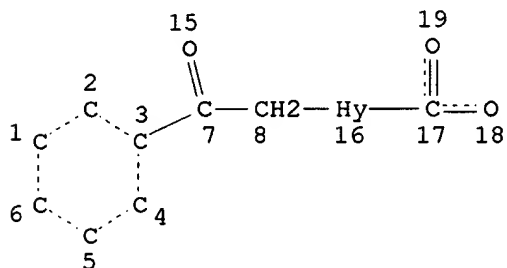
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 DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:

RSPEC 3
 NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

L7 36 SEA FILE=REGISTRY SUB=L2 SSS FUL L5
 L8 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
 GGCAT IS MCY UNS AT 16
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS E5 C E1 N AT 16

GRAPH ATTRIBUTES:

RSPEC 3
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L9 14 SEA FILE=REGISTRY SUB=L7 SSS FUL L8

100.0% PROCESSED 36 ITERATIONS
 SEARCH TIME: 00.00.01

14 ANSWERS

=> d his 19-

(FILE 'REGISTRY' ENTERED AT 08:23:35 ON 26 AUG 1999)

L9 14 S L8 FUL SUB=L7
 SAV L9 GERSTL118B/A
 L10 22 S L7 NOT L9

FILE 'HCAOLD' ENTERED AT 08:31:29 ON 26 AUG 1999
 L11 0 S L9

FILE 'HCAPLUS' ENTERED AT 08:31:33 ON 26 AUG 1999
 L12 7 S L9

FILE 'USPATFULL' ENTERED AT 08:31:40 ON 26 AUG 1999
 L13 1 S L9

FILE 'HCAPLUS, USPATFULL' ENTERED AT 08:31:45 ON 26 AUG 1999
L14 8 DUP REM L12 L13 (0 DUPLICATES REMOVED)

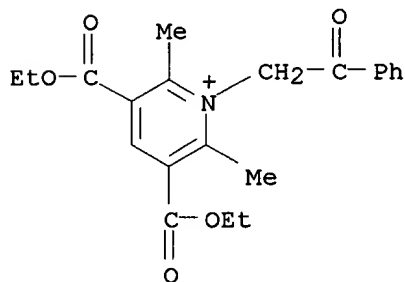
FILE 'REGISTRY' ENTERED AT 08:31:50 ON 26 AUG 1999

=> d 19 ide can tot

L9 ANSWER 1 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 194474-34-5 REGISTRY
CN Pyridinium, 3,5-bis(ethoxycarbonyl)-2,6-dimethyl-1-(2-oxo-2-phenylethyl)-,
tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Borate(1-), tetrakis(pentafluorophenyl)-, 3,5-bis(ethoxycarbonyl)-2,6-
dimethyl-1-(2-oxo-2-phenylethyl)pyridinium (9CI)
MF C24 B F20 . C21 H24 N O5
SR CA
LC STN Files: CA, CAPLUS

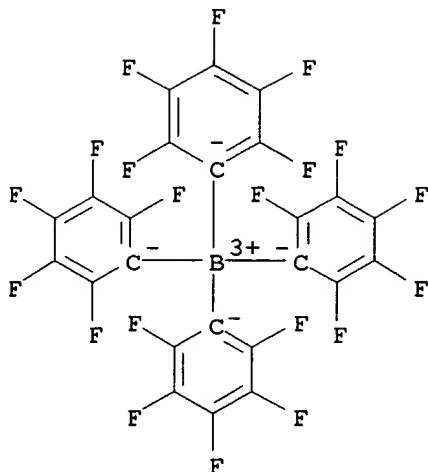
CM 1

CRN 194474-33-4
CMF C21 H24 N O5



CM 2

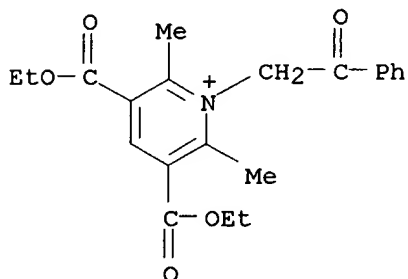
CRN 47855-94-7
CMF C24 B F20
CCI CCS



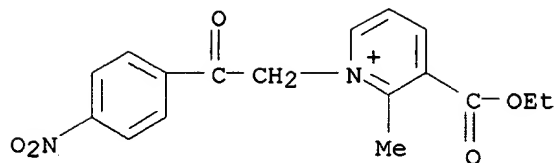
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:206408

L9 ANSWER 2 OF 14 REGISTRY COPYRIGHT 1999 ACS
 RN 194474-33-4 REGISTRY
 CN Pyridinium, 3,5-bis(ethoxycarbonyl)-2,6-dimethyl-1-(2-oxo-2-phenylethyl)-
 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H24 N O5
 CI COM
 SR CA



L9 ANSWER 3 OF 14 REGISTRY COPYRIGHT 1999 ACS
 RN 67557-45-3 REGISTRY
 CN Pyridinium, 3-(ethoxycarbonyl)-2-methyl-1-[2-(4-nitrophenyl)-2-oxoethyl]-,
 bromide (9CI) (CA INDEX NAME)
 MF C17 H17 N2 O5 . Br
 LC STN Files: CA, CAPLUS

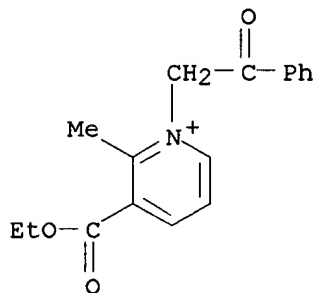


● Br⁻

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 89:108995

L9 ANSWER 4 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 67557-44-2 REGISTRY
CN Pyridinium, 3-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide
(9CI) (CA INDEX NAME)
MF C17 H18 N O3 . Br
LC STN Files: CA, CAPLUS

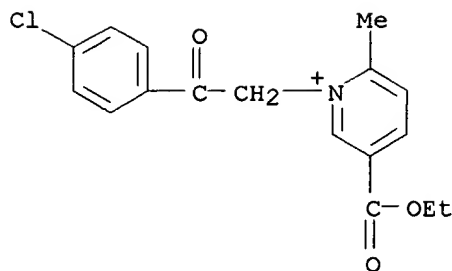


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 89:108995

L9 ANSWER 5 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 59603-51-9 REGISTRY
CN Pyridinium, 1-[2-(4-chlorophenyl)-2-oxoethyl]-5-(ethoxycarbonyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)
MF C17 H17 Cl N O3 . Br
LC STN Files: CA, CAPLUS

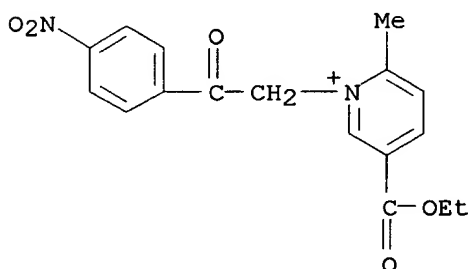


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:21063

L9 ANSWER 6 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 59603-50-8 REGISTRY
CN Pyridinium, 5-(ethoxycarbonyl)-2-methyl-1-[2-(4-nitrophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)
MF C17 H17 N2 O5 . Br
LC STN Files: CA, CAPLUS

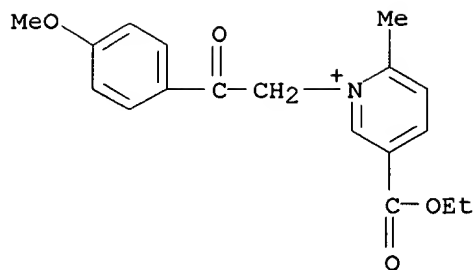


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:21063

L9 ANSWER 7 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 59603-49-5 REGISTRY
CN Pyridinium, 5-(ethoxycarbonyl)-1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)
MF C18 H20 N O4 . Br
LC STN Files: CA, CAPLUS

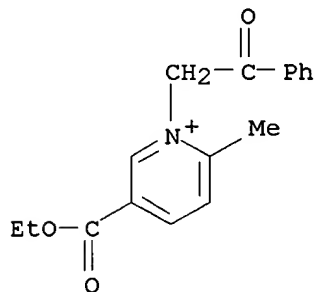


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:21063

L9 ANSWER 8 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 59603-48-4 REGISTRY
CN Pyridinium, 5-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide
(9CI) (CA INDEX NAME)
MF C17 H18 N O3 . Br
LC STN Files: CA, CAPLUS

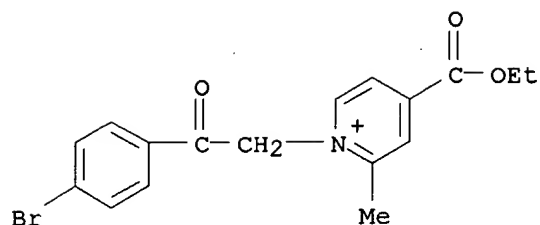


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:21063

L9 ANSWER 9 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 59195-37-8 REGISTRY
CN Pyridinium, 1-[2-(4-bromophenyl)-2-oxoethyl]-4-(ethoxycarbonyl)-2-methyl-,
bromide (9CI) (CA INDEX NAME)
MF C17 H17 Br N O3 . Br
LC STN Files: CA, CAPLUS

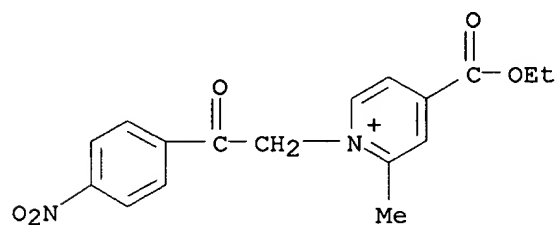


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 84:179988

L9 ANSWER 10 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 59195-36-7 REGISTRY
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-[2-(4-nitrophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)
MF C17 H17 N2 O5 . Br
LC STN Files: CA, CAPLUS

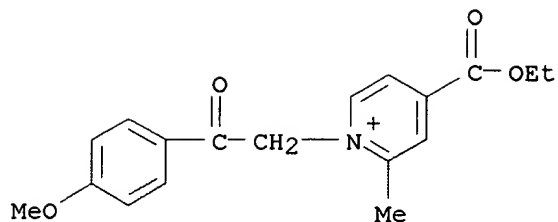


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 84:179988

L9 ANSWER 11 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 59195-35-6 REGISTRY
CN Pyridinium, 4-(ethoxycarbonyl)-1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)
MF C18 H20 N O4 . Br
LC STN Files: CA, CAPLUS

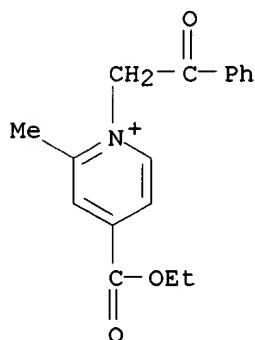


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 84:179988

L9 ANSWER 12 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 54342-81-3 REGISTRY
CN Pyridinium, ~~4-(ethoxycarbonyl)-~~2-methyl-1-(2-oxo-2-phenylethyl)-, bromide
(9CI) (CA INDEX NAME)
MF C17 H18 N O3 . Br
LC STN Files: CA, CAPLUS, USPATFULL



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3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

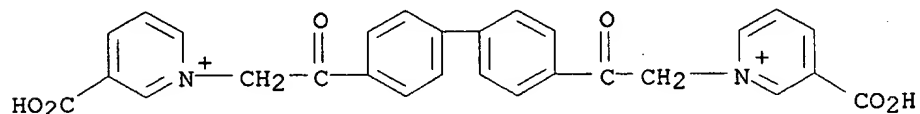
REFERENCE 1: 117:26336

REFERENCE 2: 84:179988

REFERENCE 3: 82:16671

L9 ANSWER 13 OF 14 REGISTRY COPYRIGHT 1999 ACS
RN 24620-81-3 REGISTRY
CN Pyridinium, 1,1'-[[1,1'-biphenyl]-4,4'-diylbis(2-oxo-2,1-ethanediy)]bis[3-

carboxy-, dibromide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Pyridinium, 1,1'-[4,4'-biphenylenebis(carbonylmethylene)]bis[3-carboxy-,
 dibromide (8CI)
 MF C28 H22 N2 O6 . 2 Br
 LC STN Files: CA, CAPLUS, RTECS*, TOXLIT
 (*File contains numerically searchable property data)
 CRN (24570-37-4)

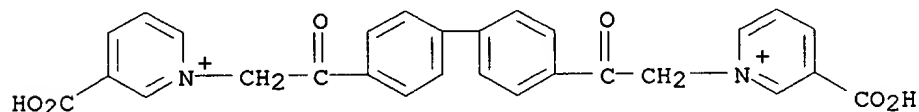


● 2 Br⁻

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 72:77111

L9 ANSWER 14 OF 14 REGISTRY COPYRIGHT 1999 ACS
 RN 24570-37-4 REGISTRY
 CN Pyridinium, 1,1'-[4,4'-biphenylenebis(carbonylmethylene)]bis[3-carboxy-
 (8CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C28 H22 N2 O6
 CI COM



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FILE 'HCAPLUS' ENTERED AT 08:32:10 ON 26 AUG 1999
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 CA INDEXING COPYRIGHT (C) 1999 AMERICAN CHEMICAL SOCIETY (ACS)

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L14 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 1999 ACS
 AN 1997:509330 HCAPLUS
 DN 127:206408
 TI Energy-sensitive pyridinium borates as acid-generating agents, their

SO Izv. Akad. Nauk SSSR, Ser. Khim. (1991), (6), 1431-9
CODEN: IASKA6; ISSN: 0002-3353
DT Journal
LA Russian
OS CASREACT 115:255361

L13 ANSWER 2 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1990:478234 CAPLUS
DN 113:78234
TI New method of 1-pyrazoline ring formation
AU Prostakov, N. S.; Varlamov, A. V.; Annan, Hussein; Fomichev, A. A.;
Aliev,
A. E.

CS Univ. Druzhby Nar. im. P. Lumumby, Moscow, 117923, USSR
SO Khim. Geterotsikl. Soedin. (1989), (12), 1697
CODEN: KGSSAQ; ISSN: 0453-8234
DT Journal
LA Russian
OS CASREACT 113:78234

L13 ANSWER 3 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1981:165607 CAPLUS
DN 94:165607
TI Pyridinium compound fogging agents for photographic material
IN Oishi, Yasushi; Hirano, Shigeo
PA Fuji Photo Film Co., Ltd., Japan
SO Ger. Offen., 70 pp.
CODEN: GWXXBX

DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3014628	A1	19801030	DE 1980-3014628	19800416
	DE 3014628	C2	19910502		
	JP 55138742	A2	19801029	JP 1979-46949	19790417
	JP 62004699	B4	19870131		
	US 4324855	A	19820413	US 1980-140923	19800416
PRAI	JP 1979-46949		19790417		

L13 ANSWER 4 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1981:65440 CAPLUS
DN 94:65440
TI Studies on cycloimmonium ylides. Synthesis of some 2,4,6-triaryl-
substituted pyridines via picolinium ylides
AU Tewari, Ram. S.; Dubey, Ajay K.; Misra, Naresh K.; Dixit, Priya D.
CS Dep. Chem., H. B. Technol. Inst., Kanpur, 208002, India
SO J. Chem. Eng. Data (1981), 26(1), 106-8
CODEN: JCEAAX; ISSN: 0021-9568
DT Journal
LA English

L13 ANSWER 5 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1977:601268 CAPLUS
DN 87:201268
TI Heterocyclic ketene thioacetal derivatives. VIII. Synthesis of ketene
thioacetals having a pyridinium salt
AU Tominaga, Yoshinori; Miyake, Yoshinori; Fujito, Hiroshi; Matsuda,
Yoshiro;
Kobayashi, Goro
CS Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SO Yakugaku Zasshi (1977), 97(8), 927-32
CODEN: YKKZAJ
DT Journal
LA Japanese

SO Justus Liebigs Ann. Chem. (1975), (5), 849-63
CODEN: JLACBF
DT Journal
LA German

=> s 19 not l11

L12 3 L9 NOT L11

=> d 1-3

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 1999 ACS
AN 1986:572262 CAPLUS
DN 105:172262
TI Stereochemical study on 1,3-dipolar cycloaddition reactions of
heteroaromatic N-ylides with unsymmetrically substituted olefinic
dipolarophiles
AU Tsuge, Otohiko; Kanemasa, Shuji; Takenaka, Shigeori
CS Interdiscip. Grad. Sch. Eng. Sci., Kyushu Univ., Kasuga, 816, Japan
SO Bull. Chem. Soc. Jpn. (1985), 58(11), 3320-36
CODEN: BCSJA8; ISSN: 0009-2673
DT Journal
LA English
OS CASREACT 105:172262

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 1999 ACS
AN 1983:453200 CAPLUS
DN 99:53200
TI Reaction of pyridinium phenacylides and related ylides with
cyclopentadienone derivatives
AU Yamashita, Yoshiro; Miyauchi, Yukio; Masumura, Mitsuo
CS Fac. Eng., Tokushima Univ., Tokushima, 770, Japan
SO Chem. Lett. (1983), (4), 489-92
CODEN: CMLTAG; ISSN: 0366-7022
DT Journal
LA English

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 1999 ACS
AN 1978:614539 CAPLUS
DN 89:214539
TI Carbon-13 nuclear magnetic resonance studies of some phosphonium,
arsonium, sulfonium and pyridinium keto-stabilized salts, and ylides and
of their palladium(II) complexes
AU Fronza, Giovanni; Bravo, Pierfrancesco; Ticozzi, Calimero
CS Cent. Stud. Sostanze Org. Nat., Politec. Milano, Milan, Italy
SO J. Organomet. Chem. (1978), 157(3), 299-310
CODEN: JORCAI; ISSN: 0022-328X
DT Journal
LA English

=> s l10 not l11

L13 7 L10 NOT L11

=> d 1-7

L13 ANSWER 1 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1991:655361 CAPLUS
DN 115:255361
TI Regioselectivity of reactions of azinium salts and ylides with
tetracyanoethylene
AU Shestopalov, A. M.; Aitov, I. A.; Sharanin, Yu. A.; Litvinov, V. P.
CS Inst. Org. Khim. im. Zelinskogo, Moscow, USSR

Q01C585

L13 ANSWER 6 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1974:36969 CAPLUS
DN 80:36969
TI Synthesis and thermal reaction of pyridinium 3,3-diacyl-1-benzoylallylides[3,3-diacyl-1-benzoyl-1-(1-pyridinio)prop-2-enides]. Formation of indolizine derivatives
AU Tamura, Yasumitsu; Sumida, Yoshio; Ikeda, Masazumi
CS Fac. Pharm. Sci., Osaka Univ., Osaka, Japan
SO J. Chem. Soc., Perkin Trans. 1 (1973), (19), 2091-5
CODEN: JCPRB4
DT Journal
LA English

L13 ANSWER 7 OF 7 CAPLUS COPYRIGHT 1999 ACS
AN 1967:453263 CAPLUS
DN 67:53263
TI Kinetics of the reaction of pyridines with phenacyl bromide in nitrobenzene
AU Litvinenko, L. M.; Perel'man, L. A.
CS Donetsk. Gos. Univ., Donetsk, USSR
SO Zh. Org. Khim. (1967), 3(5), 936-42
CODEN: ZORKAE
DT Journal
LA Russian

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FILE COVERS 1967 - 26 Aug 1999 VOL 131 ISS 9
FILE LAST UPDATED: 26 Aug 1999 (19990826/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> s 17

L9 6 L7

=> s 18

L10 10 L8

=> s 17 and 18

 6 L7
 10 L8
L11 3 L7 AND L8

=> d 1-3

L11 ANSWER 1 OF 3 CAPLUS COPYRIGHT 1999 ACS
AN 1986:590862 CAPLUS
DN 105:190862
TI Stereochemical study on 1,3-dipolar cycloaddition reactions of heteroaromatic N-ylides with symmetrically substituted cis and trans olefins
AU Tsuge, Otohiko; Kanemasa, Shuji; Takenaka, Shigeori
CS Interdiscip. Grad. Sch. Eng. Sci., Kyushu Univ., Kasuga, 816, Japan
SO Bull. Chem. Soc. Jpn. (1985), 58(11), 3137-57
CODEN: BCSJA8; ISSN: 0009-2673
DT Journal
LA English
OS CASREACT 105:190862

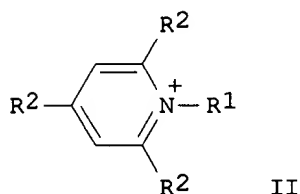
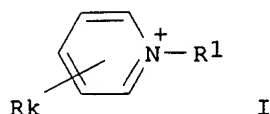
L11 ANSWER 2 OF 3 CAPLUS COPYRIGHT 1999 ACS
AN 1978:22552 CAPLUS
DN 88:22552
TI Reaction of pyridinium N-ylides with ketene thioacetal derivatives
AU Tominaga, Yoshinori; Miyake, Yoshinori; Fujito, Hiroshi; Kurata, Keiji; Awaya, Hiroyoshi; Matsuda, Yoshiro; Kobayashi, Goro
CS Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SO Chem. Pharm. Bull. (1977), 25(7), 1528-33
CODEN: CPBTAL
DT Journal
LA English

L11 ANSWER 3 OF 3 CAPLUS COPYRIGHT 1999 ACS
AN 1975:514165 CAPLUS
DN 83:114165
TI Route to 2,6-dihydroxypiperidines
AU Wild, Peter; Kroehnke, Fritz
CS Inst. Org. Chem., Univ. Giessen, Giessen, Ger.

compositions, curable compositions containing the agents, and cured products

IN Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka
 PA Toyo Ink Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 74 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09194816	A2	19970729	JP 1996-7972	19960122
OS	MARPAT 127:206408				
GI					



AB Title agents comprising pyridinium cations I [R1 = benzyl, phenacyl, allyl, alkoxy, aryloxy (each may be substituted); R = F, Cl, Br, OH, carboxy, mercapto, cyano, NO₂, carbamoyl, C1-18 linear, branched, or cyclic alkyl, C2-18 linear, branched, or cyclic alkenyl, C6-18 monocyclic or condensed polycyclic aryl, C7-18 monocyclic or condensed polycyclic arylalkyl, C1-18 linear, branched, or cyclic alkoxyalkyl, C6-18 monocyclic or condensed polycyclic aryloxy, C1-18 linear, branched, or cyclic aliph. acyl, C7-18 monocyclic or condensed polycyclic arom. acyl, C2-19 linear, branched, or cyclic alkoxy carbonyl, C7-19 monocyclic or condensed polycyclic aryloxy carbonyl (each may be substituted with F, Cl, Br, OH, carboxyl, mercapto, cyano, NO₂, azide); R and R1 may form ring; k = 0-5] and BYmZn- (Y = F, Cl; Z = Ph substituted with .gtoreq.2 electron-attractive groups selected from F, cyano, NO₂, CF₃; m = 0-3; n = 1-4, m + n = 4). Alternatively, the cations are pyridinium II and the anions are tetrakis(pentafluorophenyl)borate or tetrakis[3,5-bis(trifluoromethyl)phenyl]borate. Further claimed are (A) compns. contg. the acid-generating agents and sensitizers, (B) curable compns. further contg. acid-curable compds. and optionally radically curable compds. and radical initiators, and (C) their cured products, which are applicable to various uses, e.g., plastic moldings, sealing materials, printing inks, photosensitive printing plates, photoresists, etc. Thus, a mixt. of 100 parts ERL 4221 (epoxy compds.) and 1 part N-benzylpyridinium tetrakis(pentafluorophenyl)borate was UV-irradiated for 5 min to give cured product.

IT 194474-34-5

RL: CAT (Catalyst use); USES (Uses)
 (pyridinium borates as energy-sensitive acid-generating agents for acid-curable compns.)

L14 ANSWER 2 OF 8 USPATFULL

AN 93:52588 USPATFULL

TI Alkylaminoalkyl derivatives of benzofuran, benzothiophene, indole and indolizine, process for their preparation and compositions containing them

IN Gubin, Jean, Brussels, Belgium
Chatelain, Pierre, Brussels, Belgium
Lucchetti, Jean, Chastre, Belgium
Rosseels, Gilbert, Wemmel, Belgium
Inion, Henri, Wemmel, Belgium

PA Sanofi, Paris, France (non-U.S. corporation)

PI US 5223510 19930629

AI US 1991-736580 19910726 (7)

PRAI FR 1990-10036 19900806

DT Utility

EXNAM Primary Examiner: Higel, Floyd D.

LREP Wegner, Cantor, Mueller & Player

CLMN Number of Claims: 26

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 2700

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The subject of the invention is benzofuran, benzothiophene, indole or indolizine compounds of general formula: ##STR1## in which: Het represents one of the groups: ##STR2## in which T, T' and T'' represent particularly a group: ##STR3## R and R.sub.a, identical or different, represent X represent --O-- or --S--

Y represents a radical ##STR4## These compounds are useful as medicines particularly for the treatment of pathological syndroms of the cardio-vascular system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 54342-81-3P

(prepn. and reaction of, in prepn. of cardiovascular agents)

L14 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 1999 ACS

AN 1992:426336 HCAPLUS

DN 117:26336

TI Preparation of benzofurans, benzothiophenes, indoles, and indolizines as cardiovascular agents

IN Gubin, Jean; Lucchetti, Jean; Inion, Henri; Chatelain, Pierre; Rosseels, Gilbert; Kilenyi, Steven

PA SANOFI S. A., Fr.; Societe Anon. Sanofi-Pharma N. V.

SO Eur. Pat. Appl., 81 pp.

CODEN: EPXXDW

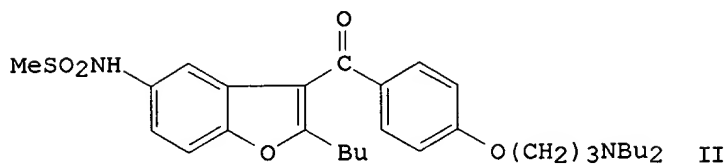
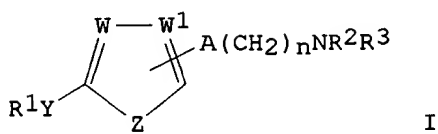
DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 471609	A1	19920219	EP 1991-402201	19910806
	EP 471609	B1	19961127		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	FR 2665444	A1	19920207	FR 1990-10036	19900806
	FR 2665444	B1	19921127		
	CA 2047773	AA	19920207	CA 1991-2047773	19910724
	US 5223510	A	19930629	US 1991-736580	19910726

ZA 9105934	A	19930331	ZA 1991-5934	19910729
IL 98991	A1	19951208	IL 1991-98991	19910729
AU 9181428	A1	19920213	AU 1991-81428	19910730
AU 648569	B2	19940428		
FI 9103704	A	19920207	FI 1991-3704	19910802
NO 9103033	A	19920207	NO 1991-3033	19910805
NO 179042	B	19960415		
NO 179042	C	19960724		
BR 9103354	A	19920505	BR 1991-3354	19910805
JP 04316554	A2	19921106	JP 1991-195431	19910805
JP 2795759	B2	19980910		
PL 168044	B1	19951230	PL 1991-291334	19910805
RU 2095357	C1	19971110	RU 1991-5001351	19910805
HU 62280	A2	19930428	HU 1991-2610	19910806
AT 145645	E	19961215	AT 1991-402201	19910806
ES 2096639	T3	19970316	ES 1991-402201	19910806
PRAI FR 1990-10036		19900806		
OS MARPAT 117:26336				
GI				

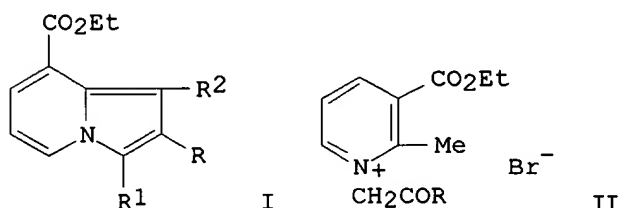


AB Title compds. I [R1 = various (un)substituted benzofuryl, benzothienyl, indolyl, and indoliziny groups; Y = CO, CH(OR4); R2 = H, alkyl; R3 = alkyl, certain (hetero)aryl and (hetero)aralkyl; or R2R3 = alkylene or alkenylene optionally substituted by Ph or interrupted by O, NH, alkyl- or phenylimino, or N; R4 = H, alkyl, acyl; A = O, S, NHCO; when W = W' = CH or N, Z = O or S; or W, W', and Z form (un)substituted benzene nucleus; n = 1-5] were prepd. For example, 2-butyl-5-nitrobenzofuran (prepn. given) underwent Friedel-Crafts reaction with anisoyl chloride and SnCl4 to give 83.5% 3-(4-methoxybenzoyl) deriv., which was subjected to demethylation by AlCl3 (90.1%), etherification with Cl(CH2)3NBu2 (88.76%), hydrogenation of the NO2 group (95.28%), and N-methanesulfonylation (61.1%) to give title compd. II, isolated as the HCl salt. At 10 mg/kg in anesthetized rats, II increased the duration of action potential by 60%. A formulation, 35 syntheses of I, approx. 100 addnl. listed I, addnl. action potential data, and antiadrenergic data for some I, are given. I are also said to be useful as potentiators of anticancer agents.

IT 54342-81-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction of, in prepn. of cardiovascular agents)

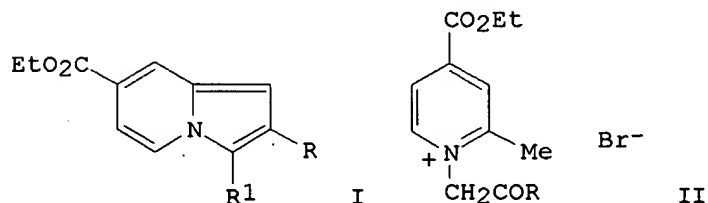
AN 1978:508995 HCAPLUS
 DN 89:108995
 TI Indolizines. V. Synthesis and properties of 2-methyl(aryl)-8-carbethoxyindolizines
 AU Loseva, T. S.; Goizman, M. S.; Alekseeva, L. M.; Shvarts, O. R.; Mikhлина, E. E.; Yakhontov, L. N.
 CS Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow, USSR
 SO Khim. Geterotsikl. Soedin. (1978), (6), 802-8
 CODEN: KGSSAQ; ISSN: 0453-8234
 DT Journal
 LA Russian
 GI



AB Indolizines I ($\text{R} = \text{Me}, \text{Ph}, \text{p-tolyl}, \text{p-MeOC}_6\text{H}_4, \text{p-O}_2\text{NC}_6\text{H}_4$; $\text{R}_1 = \text{Ac}, \text{CHO}, \text{Bz}, \text{NO}, \text{CH}_2\text{NMe}_2, \text{morpholinomethyl}$; $\text{R}_2 = \text{H}, \text{morpholinomethyl}$) were prepd. in 35-86% yield from I ($\text{R}_1 = \text{R}_2 = \text{H}$) by 6 different methods, e.g., Mannich reaction or electrophilic substitution. I ($\text{R}_1 = \text{R}_2 = \text{H}$) were prepd. from pyridinium salts II. The NMR of the prepd. compds. was discussed. There was a correlation of pK_a with Hammett σ consts. for I ($\text{R} = \text{aryl}, \text{R}_1 = \text{R}_2 = \text{H}$).

IT 67557-44-2P 67557-45-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclization of)

L14 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 1999 ACS
 AN 1976:179988 HCAPLUS
 DN 84:179988
 TI Indolizines. III. Some electrophilic substitution reactions in 2-methyl(aryl)-7-ethoxycarbonylindolizine series
 AU Loseva, T. S.; Yanina, A. D.; Mikhлина, E. E.; Yakhontov, L. N.
 CS Vses. Nauchno-Issled. Khim.-Farm. Inst. im. Ordzhonikidze, Moscow, USSR
 SO Khim. Geterotsikl. Soedin. (1976), (3), 348-51
 CODEN: KGSSAQ
 DT Journal
 LA Russian
 GI



AB Indolizinecarboxylates (I, R = Ph, Me, p-MeOC₆H₄, p-BrC₆H₄, p-O₂NC₆H₄, R₁ = CHO, MeCO, PhCO, p-ClC₆H₄CO, CH₂NMe₂) were obtained in 42-95% yields in 3 steps from II by treatment with aq. NH₃, followed by cyclization to give I (R₁ = H) and subsequent electrophilic substitution.

IT 54342-81-3P 59195-35-6P 59195-36-7P
59195-37-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and inner salt formation from)

L14 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 1999 ACS

AN 1976:421063 HCAPLUS

DN 85:21063

TI Indolizines. II. Synthesis and properties of 2-methyl(aryl)-6-ethoxycarbonylindolizines

AU Loseva, T. S.; Yanina, A. D.; Mikhлина, E. E.; Yakhontov, L. N.

CS Vses. Nauchno-Issled. Khim.-Farm. Inst. im. Ordzhonikidze, Moscow, USSR

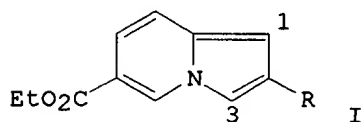
SO Khim. Geterotsikl. Soedin. (1976), (2), 209-14

CODEN: KGSSAQ

DT Journal

LA Russian

GI



AB Condensation-cyclization of Et 6-methyl-3-pyridinecarboxylate with RCOCH₂Br (R = Me, Ph, substituted phenyl) gave the title indolizines I, which underwent electrophilic substitution reactions to give 3-mono- and 1,3-disubstituted derivs. of I. Thus, Vilsmeier formylation of I (R = Me) gave 47% of the corresponding 1,3-diformyl deriv., whereas I (R = Ph) gave 90.5% of the corresponding 3-formyl deriv.

IT 59603-48-4P 59603-49-5P 59603-50-8P
59603-51-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclization of)

L14 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 1999 ACS

AN 1975:16671 HCAPLUS

DN 82:16671

TI Synthesis and properties of 2-methyl(aryl)-7-ethoxy carbonylindolizines

AU Mikhлина, E. E.; Yanina, A. D.; Loseva, T. S.; Turchin, K. F.; Yakhontov, L. N.

CS Vses. Nauchno-Issled. Khim.-Farm. Inst. im. Ordzhonikidze, Moscow, USSR

SO Khim. Geterotsikl. Soedin. (1974), (7), 977-81

CODEN: KGSSAQ

DT Journal

LA Russian

GI For diagram(s), see printed CA Issue.

AB Alkylation of the isonicotinates I (R = Me, Et) with BrCH₂COCH₃ and BrCH₂COPh gave the pyridinium bromides II (R₁ = Me, Ph; resp.); cyclization of II (R = Et; R₁ = Me, Ph) in refluxing EtOH contg. NaHCO₃ yielded Et 2-methyl-7-indolizinecarboxyl-ate (III) and 2-phenyl-7-indolizinecarboxylate, resp. Successive treatment of II (R =

GERSTL

AU 1613

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